

	LAST REVIEW DATE: 9/25/2025	REVIEW CYCLE:
	EFFECTIVE DATE: 12/1/2025	5 Years

SPECIFICATION: G-100,276-8

TITLE: INSULATING KITS FOR FLANGES ON STEEL GAS PIPELINES

VOLUME: 6 & Yellow Book

COURSE ID: NONE

★ **REQUIRED TRAINING GROUPS:** NONE

★ Each group listed is responsible for its own training which may be specific to a title/individual and not to the group in its entirety. Please check with your local training coordinator/department.

★ **SUBSTANTIVE REVISIONS: (See ★)**

- 1) Cover Page - Updated to the current spec format with Required Training Groups, Substantive Revision, and statement on training responsibility.
- 2) Section 3.1 - Added class & stock number for 8", 150# pressure full face gasket.
- 3) Section 4.1 - Updated distributor information in sub-sections (A) & (B).

INTERNAL



Gas Operations Standards

TITLE: INSULATING KITS FOR FLANGES ON STEEL GAS PIPELINES

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EFFECTIVE DATE: 12/1/2025

EH&S REVIEW BY:

OPERATIONS REVIEW BY: N/A

AUTHOR:

APPROVED BY:

DATE APPROVED:

VOLUME: 6 & Yellow Book

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9/24/2025

Purchase and Test

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TITLE: INSULATING KITS FOR FLANGES ON STEEL GAS PIPELINES

1.0 SCOPE

This specification covers the purchase of flange insulation kits to be used for insulating joints on steel gas pipelines.

2.0 MATERIAL

2.1 Insulating central gaskets shall meet the following requirements:

- A) The gaskets shall be full face, type E, having the same outside diameter as the flange in which they will be used, and the inside diameter 1/8" smaller than the inside diameter of the flange.
- B) The gaskets shall be made from laminated phenolic with build in nitril (Buna-N) o-rings seals or equivalent. This gasket shall have the following properties:

Thickness	1/8 inch
Compression Strength	24,000 psi min
Dielectric Strength	800 V/mil min
Water Absorption	1.6% max
Maximum Operating Temperature	180 Degrees F

2.2 The sleeves used shall be made of multiple layers of mylar polyester film, spirally wound. They shall have the following properties:

Thickness	1/32 inch
Ultimate Tensile Strength @ 25°C	24,000 psi min
Dielectric Strength @ 25°C	220 V/mil min
Water Absorption	1.6% max
Maximum Operating Temperature	300 Degrees F

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2.0 **MATERIAL** (Continued)

2.3 The insulating washers used shall be made of thermosetting phenolic and shall have the following properties:

Thickness	1/8 inch
Compressive Strength	24,000 psi min
Dielectric Strength	220 v/mil min.
Water Absorption	1.6% max.
Maximum Operating Temperature	225 Degrees F

2.4 The non-insulating washers used shall be made of cadmium plated steel.

3.0 **STOCK NUMBERS**

3.1 The following size flange kits are in stock without the full face gasket. Gaskets can be ordered separately.

<u>Size</u>	<u>Pressure</u>	<u>Stock Number</u>
2"	150#	334-2219
4"	150#	334-2201
6"	150#	334-2193
8"	150#	334-2227
★ 8"	300#	334-1407

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4.0 APPROVED INSULATING KITS

★ 4.1 The following products are approved:

A) PSI Linebacker Flange Insulation Kit
 Manufacturer: PSI Company

Distributors: MESA Products
 Tulsa OK

Or

ICCC – Rustrol System
 Lewiston NY

B) Central Plastics “Jock” Flange Insulation Kit
 Manufacturer: Central Plastics

Distributor: Farwest Corrosion Control Company
 Downey, CA 90241

Or

ICCC – Rustrol System
 Lewiston NY

4.2 Competitive products may be purchased **only** with written approval from Corrosion Control.

5.0 PACKAGING

5.1 Each insulation kit shall be individually packaged with the sleeves and washers enclosed in a strong bag. This bag, together with the center gasket shall be packaged in a cardboard box which shall be clearly labeled as to its contents.

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6.0 RECORDS RETENTION

Any records generated in the course of performing work in accordance with this specification shall be maintained as required by Corporate Instruction [CI-870-1](#) "Records Management". Guidance on the retention of Company Gas Operations records can also be found on the [Records Management](#) intranet site

7.0 REFERENCES

[CI-870-1](#) - Records Management

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